WHAT IS CLAIMED IS:

- 1. An isolated antibody that specifically binds the Apoptosis Inducing Molecule (AIM-I) protein of SEQ ID NO:2.
- 2. The antibody according to claim 1, which is a monoclonal antibody.
- 3. The antibody of claim 1, wherein the antibody is an antagonist of the protein of SEQ ID NO:2.
- 4. The antibody of claim 1, which antibody blocks binding of AIM-I to a target cell.
- 5. The antibody of claim 4, which is a monoclonal antibody.
- 6. An antigen-binding fragment of the antibody of claim 1.
- 7. An antigen-binding fragment of the monoclonal antibody of claim 5.
- 8. A hybridoma cell line that produces the monoclonal antibody of claim 2.
- 9. A composition comprising the antibody of claim 1, and a pharmaceutically acceptable carrier.
- 10. A composition comprising the monoclonal antibody of claim 2, and a pharmaceutically acceptable carrier.
- 11. The antibody of claim 3, which is an monoclonal antibody.
- 12. An antigen-binding fragment of the monoclonal antibody of claim 11.
- 13. An isolated antibody that specifically binds an Apoptosis Inducing Molecule (AIM-I) polypeptide, wherein said polypeptide comprises amino acids 39 to 281 of SEQ ID NO:2.

15.	The antibody of claim 13, wherein the antibody is an antagonist of AIM-I.
16.	The monoclonal antibody of claim 14, which blocks binding of AIM-I to a target cell
17.	An antigen-binding fragment of the monoclonal antibody of claim 14.
18.	A hybridoma cell line that produces the monoclonal antibody of claim 14.
19.	The antibody of claim 15, which is a monoclonal antibody.
20.	The antibody of claim 1, which is selected from the group consisting of: (a) a polyclonal antibody; (b) a chimeric antibody; (c) a humanized antibody; and (d) a human antibody.
21.	The antibody of claim 13, which is selected from the group consisting of: (a) a polyclonal antibody; (b) a chimeric antibody; (c) a humanized antibody; and (d) a human antibody.
22. cDNA	An isolated antibody that specifically binds the polypeptide encoded by the human contained in ATCC Deposit No. 97448.
23.	The antibody of claim 22, which is a monoclonal antibody.

The antibody of claim 13, which is a monoclonal antibody.

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The antibody of claim 22, which is selected from the group consisting of:

- (a) a polyclonal antibody;
- (b) a chimeric antibody;
- (c) a humanized antibody; and
- (d) a human antibody.
- 25. The antibody of claim 22, which is an antagonist of the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448.
- 26. An isolated antibody fragment, which fragment specifically binds the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448.
- 27. The antibody fragment of claim 26, which fragment is selected from the group consisting of:
 - (a) a humanized antibody fragment;
 - (b) a monoclonal antibody fragment;
 - (c) a polyclonal antibody fragment;
 - (d) a human antibody fragment; and
 - (e) a Fab fragment.
- 28. The antibody fragment of claim 26, which fragment is an antagonist of the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448.
- 29. An isolated antibody specific to a polypeptide purified from a cell culture, wherein cells in said cell culture comprise a polynucleotide encoding the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448, said polynucleotide being operably associated with a regulatory sequence that controls gene expression.
- 30. The antibody of claim 29, which is selected from the group consisting of:

- (a) a monoclonal antibody;
- (b) a polyclonal antibody;
- (c) a chimeric antibody;
- (d) a humanized antibody; and
- (e) a human antibody.
- 31. The antibody of claim 29, which is an antagonist of the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448.
- 32. An isolated antibody fragment, which fragment specifically binds a polypeptide purified from a cell culture, wherein cells in said cell culture comprise a polynucleotide encoding the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448, said polynucleotide being operably associated with a heterologous regulatory sequence that controls gene expression.
- 33. The antibody fragment of claim 32, which fragment is selected from the group consisting of:
 - (a) a monoclonal antibody fragment;
 - (b) a polyclonal antibody fragment;
 - (c) a chimeric antibody fragment;
 - (d) a humanized antibody fragment; and
 - (e) a human antibody fragment.
- 34. The antibody fragment of claim 32, which fragment is an antagonist of the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448.
- 35. An isolated antibody obtained from an animal immunized with an isolated recombinant AIM-I polypeptide purified from a cell culture, wherein cells in said cell culture comprise a polynucleotide encoding the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448, said polynucleotide

being operably associated with a regulatory sequence that controls gene expression, wherein said antibody specifically binds the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448.

- 36. The antibody of claim 35, which is selected from the group consisting of:
 - (a) a monoclonal antibody fragment;
 - (b) a polyclonal antibody fragment;
 - (c) a chimeric antibody fragment;
 - (d) a humanized antibody fragment; and
 - (e) a human antibody fragment.
- 37. The antibody of claim 35, which is an antagonist of the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448.
- 38. An isolated antibody fragment obtained from an animal immunized with an isolated recombinant AIM-I polypeptide purified from a cell culture, wherein cells in said cell culture comprise a polynucleotide encoding the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448, said polynucleotide being operably associated with a regulatory sequence that controls gene expression, wherein said antibody fragment specifically binds the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448.
- 39. The antibody fragment of claim 38, which fragment is selected from the group consisting of:
 - (a) a monoclonal antibody fragment;
 - (b) a polyclonal antibody fragment;
 - (c) a chimeric antibody fragment;
 - (d) a humanized antibody fragment; and
 - (e) a human antibody fragment.

- 40. The antibody fragment of claim 38, which fragment is an antagonist of the polypeptide of SEQ ID NO:2 or the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97448.
- 41. A kit comprising in one or more containers a molecule selected from the group consisting of an anti-AIM-I antibody, a nucleic acid probe capable of hybridizing to AIM-I RNA, or a pair of nucleic acid primers capable of priming amplification of at least a portion of an AIM-I nucleic acid.